Resource Summary Report

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TSRI-Yates Lab

RRID:SCR_005699
Type: Tool

Proper Citation

TSRI-Yates Lab (RRID:SCR_005699)

Resource Information

URL: http://fields.scripps.edu/

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Description: Scientists at the Yates Lab at The Scripps Research Institute (TSRI) rely on information yielded by tandem mass spectrometry to identify proteins from complex mixtures. Using this powerful technique, researchers draw upon a cross section of fields to increase the scope, sensitivity, and throughput of technologies for practical proteomics. Biologists provide the questions that drive our research. By identifying complexes that are poorly understood or organism-wide issues requiring further exploration, we gain a theoretical understanding of issues that are tractable only through proteomic strategies. Analytical chemists and biochemists improve our tools for revealing the proteins present in biological samples. Targets for optimization include the isolations used to obtain proteins, the steps to generate peptides from these proteins, and the separation of peptides en route to the mass spectrometer. Chemistry is vital to increasing power of proteomic technology. Computer science yields tools on two scales. First, the sequence corresponding to each peptide"s tandem mass spectrum must be identified. Once those identifications have been completed, additional tools are needed to summarize and organize these identifications.

Abbreviations: TSRI Yates Lab

Synonyms: Yates Lab at The Scripps Research Institute, The Scripps Research Institute -Yates Lab, TSRI Proteomic Mass Spectrometry Lab, Proteomic Mass Spectrometry Lab at The Scripps Research Institute

Resource Type: portal, organization portal, data or information resource, laboratory portal

Keywords: proteomic, mass spectrometry, protein, peptide

Resource Name: TSRI-Yates Lab

Resource ID: SCR_005699

Alternate IDs: nlx_149155

Record Creation Time: 20220129T080231+0000

Record Last Update: 20260801T190301+0000

Ratings and Alerts

No rating or validation information has been found for TSRI-Yates Lab.

No alerts have been found for TSRI-Yates Lab.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 4 mentions in open access literature.

Listed below are recent publications. The full list is available at T1D .

Solis GM, et al. (2018) Translation attenuation by minocycline enhances longevity and proteostasis in old post-stress-responsive organisms. eLife, 7.

Zhang C, et al. (2013) Quantification of histone modifications using ¹?N metabolic labeling. Methods (San Diego, Calif.), 61(3), 236.

Oeljeklaus S, et al. (2009) Advancements in plant proteomics using quantitative mass spectrometry. Journal of proteomics, 72(3), 545.

Carvalho PC, et al. (2009) YADA: a tool for taking the most out of high-resolution spectra. Bioinformatics (Oxford, England), 25(20), 2734.